

SAFETY DATA SHEET



n-Butyl acetate
10430

Version / Revision
Supersedes Version

3
2.01***

Revision Date
Issuing date

18-May-2020
18-May-2020

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product identifier

Identification of the
substance/preparation

n-Butyl acetate

CAS-No 123-86-4
EC No. 204-658-1
Registration number (REACH) 01-2119485493-29

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Formulation
Distribution of substance
coatings
cleaning agent
laboratory chemicals

Uses advised against None

1.3. Details of the supplier of the safety data sheet

Company/Undertaking
Identification **OQ Chemicals GmbH**
Rheinpromenade 4A
D-40789 Monheim
Germany

OQ Chemicals Corporation
15375 Memorial Drive
West Memorial Place I
Suite 300
Houston, TX 77079
USA

Product Information Product Stewardship
FAX: +49 (0)208 693 2053
email: sc.psq@oq.com

1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 671 (UK) available 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Flammable liquid Category 3, H226
Target Organ Systemic Toxicant - Single exposure Category 3, H336

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Additional information

For full text of Hazard- and EU Hazard-statements see SECTION 16.

2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).

Hazard pictograms



Signal word

Warning

Hazard statements

H226: Flammable liquid and vapour.
H336: May cause drowsiness or dizziness.

Precautionary statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P261: Avoid breathing gas/mist/vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTRE/doctor if you feel unwell.
P403 + P235: Store in a well ventilated place. Keep cool.

Supplemental Hazard Information (EU)

EUH 066: Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Vapours may form explosive mixture with air

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback

Components of the product may be absorbed into the body by inhalation

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

SECTION 3: Composition / information on ingredients

3.1. Substances

Component	CAS-No	RECh-No	1272/2008/EC	Concentration (%)
n-Butyl acetate	123-86-4	01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 EU H066	> 99,0

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For full text of Hazard- and EU Hazard-statements see SECTION 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Main symptoms

cough, nausea, vomiting, headache, unconsciousness, shortness of breath, dizziness, narcosis.

Special hazard

Lung oedema, central nervous system effects, Prolonged skin contact may defat the skin and produce dermatitis.

4.3. Indication of any immediate medical attention and special treatment needed

General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO₂), water spray

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback

Vapours may form explosive mixture with air

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5.3. Advice for firefighters

Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.
For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

For personal protective equipment see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Advice on the protection of the environment

See Section 8: Environmental exposure controls.

Incompatible products

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strong acids and strong bases
strong oxidizing agents

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air.

Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

Suitable material

stainless steel, mild steel, aluminium

Unsuitable material

copper, Attacks some forms of plastic and rubber

Temperature class

T2

7.3. Specific end use(s)

Formulation
Distribution of substance
coatings
cleaning agent
laboratory chemicals

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits Egypt

Egypt OELs; Threshold limits of air pollutants in the workplace (Decree No. 338, Annex 8)

Component	TWA (mg/m ³)	TWA (ppm)	STEL (mg/m ³)	STEL (ppm)
n-Butyl acetate CAS: 123-86-4	713	150	950	200

Exposure limits Israel

Israel OELs

Component	TWA (mg/m ³)	TWA (ppm)	STEL (mg/m ³)	STEL (ppm)
n-Butyl acetate CAS: 123-86-4		50		150

Exposure limits South Africa

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South Africa OELs; Recommended exposure limits

Component	TWA (mg/m ³)	TWA (ppm)	STEL (mg/m ³)	STEL (ppm)
n-Butyl acetate CAS: 123-86-4	710	150	950	950

Exposure limits United Arab Emirates

United Arab Emirates OELs

Component	TWA (mg/m ³)	TWA (ppm)	STEL (mg/m ³)	STEL (ppm)
n-Butyl acetate CAS: 123-86-4	724 Dubai	150 Dubai	966 Dubai	200 Dubai
	713 Abu Dhabi	150 Abu Dhabi	950 Abu Dhabi	200 Abu Dhabi

Exposure limits Kuwait

No exposure limits established.

Note

For details and further information please refer to the original regulation.

Occupational Exposure Controls

8.2. Exposure controls

Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Personal protective equipment

General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Suitable material	butyl-rubber
Evaluation	according to EN 374: level 3
Glove thickness	approx 0,3 mm
Break through time	approx 60 min

Suitable material	polyvinylchloride / nitrile rubber
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Evaluation according to EN 374: level 2
Glove thickness approx 0,9 mm
Break through time approx 30 min

Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

Respiratory protection

Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Equipment should conform to NIOSH, EN or other applicable national standards.

Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid
Colour colourless
Odour fruity
Odour threshold 7 - 20 ppm
pH 6,2 (5,3 g/l in water @ 20 °C (68 °F))
Melting point/range < -90 °C (Pour point)
Boiling point/range 126 °C @ 1013 hPa
Flash point 27 °C @ 1013 hPa
Method EU A.9
Evaporation rate 1,0 (n-Butyl acetate = 1)
Flammability (solid, gas) Does not apply, the substance is a liquid
Lower explosion limit 1,2 Vol %
Upper explosion limit 7,5 Vol %

Vapour pressure

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
11,2	1,12	0,0112	20	68	OECD 104
57,9	5,79	0,0579	50	122	OECD 104

Vapour density 4,0 (Air = 1) @ 20 °C (68 °F)

Relative density

Values	@ °C	@ °F	Method
0,881	20	68	DIN 51757

Solubility 5,3 g/l @ 20 °C, in water, OECD 105

log Pow 2,3 (measured), OECD 117

Autoignition temperature 415 °C @ 1013 hPa

Method DIN 51794

Decomposition temperature No data available

Viscosity 0,83 mPa*s @ 20 °C

Method OECD 114

Oxidizing properties Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties

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Explosive properties Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties

9.2. Other information

Molecular weight 116,16
Molecular formula C6 H12 O2
Refractive index 1,393 @ 20 °C
Surface tension 61,3 mN/m (1 g/l @ 20°C (68°F)), OECD 115

SECTION 10: Stability and Reactivity

10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

10.5. Incompatible materials

strong acids and strong bases, strong oxidizing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure Ingestion, Inhalation, Eye contact, Skin contact

Acute toxicity				
n-Butyl acetate (123-86-4)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	10760 mg/kg	rat, male/female	OECD 423
Dermal	LD50	> 14112 mg/kg	rabbit	OECD 402
Inhalative	LC50	> 20 mg/l (4h)		

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Assessment

Based on available data, the classification criteria are not met for:

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Acute oral toxicity
Acute dermal toxicity
Acute inhalation toxicity

Irritation and corrosion				
n-Butyl acetate (123-86-4)				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	No skin irritation	OECD 404	
Eyes	rabbit	No eye irritation	OECD 405	
Respiratory tract	human	Low irritating potential		

n-Butyl acetate, CAS: 123-86-4

Assessment

Based on available data, the classification criteria are not met for:
skin irritation/corrosion
eye irritation/corrosion
respiratory irritation

Sensitization				
n-Butyl acetate (123-86-4)				
Target Organ Effects	Species	Evaluation	Method	
Skin	mouse	not sensitizing		

n-Butyl acetate, CAS: 123-86-4

Assessment

Based on available data, the classification criteria are not met for:
Skin sensitization
For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity				
n-Butyl acetate (123-86-4)				
Type	Dose	Species	Method	
90-day	NOAEC: 500 ppm	rat, male/female	EPA OTS 798.2450	Inhalation
90-day	NOAEL: 125 mg/kg/d	rat, male/female		Oral read across
90-day	LOAEL: 500 mg/kg/d	rat, male/female		Oral read across

n-Butyl acetate, CAS: 123-86-4

Assessment

Based on available data, the classification criteria are not met for:
STOT RE

Carcinogenicity, Mutagenicity, Reproductive toxicity					
n-Butyl acetate (123-86-4)					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	
Mutagenicity		CHL (Chinese hamster lung cells)	negative (without metabolic activation)	Chromosomal Aberration	In vitro study
Mutagenicity		V79 cells, Chinese hamster	negative	OECD 476 (Mammalian Gene Mutation)	In vitro study read across

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				HPRT	
Mutagenicity		mouse	negative	OECD 474	in vivo read across
Reproductive toxicity	NOEC 9640 mg/m ³	rat rabbit rat, male/female		OECD 416	
Developmental Toxicity	LOAEC: 7230 mg/m ³	rat rabbit		OECD 414, Inhalative	Maternal toxicity Developmental toxicity

n-Butyl acetate, CAS: 123-86-4

CMR Classification

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

Evaluation

In vitro tests did not show mutagenic effects
Did not show mutagenic effects in animal experiments
No developmental effects in the absence of maternal toxicity
No cancer study was conducted
In the absence of specific alerts no cancer testing is required

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Main symptoms

dizziness, narcosis, cough, nausea, vomiting, headache, unconsciousness, shortness of breath.

Target Organ Systemic Toxicant - Single exposure

The available data lead to the classification given in section 2

Target Organ Systemic Toxicant - Repeated exposure

Repeated exposure may cause skin dryness or cracking
Based on available data, the classification criteria are not met for:
STOT RE

Other adverse effects

Components of the product may be absorbed into the body by inhalation.

Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:
<http://echa.europa.eu/information-on-chemicals/registered-substances>.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity			
n-Butyl acetate (123-86-4)			
Species	Exposure time	Dose	Method
Pimephales promelas (fathead minnow)	96h	LC50: 18 mg/l	OECD 203
Selenastrum capricornutum (green algae)	72h	EC50: 397 mg/l	OECD 201 Growth rate
Tetrahymena pyriformis	40 h	IC50: 356 mg/l	
Daphnia magna (Water flea)	48h	EC50: 44 mg/l	OECD 202

Long term toxicity

n-Butyl acetate (123-86-4)			
Type	Species	Dose	Method

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Aquatic toxicity	Selenastrum capricornutum (green algae)	NOEC: 196 mg/l	OECD 201 Growth rate	
Aquatic toxicity Reproductive toxicity	Daphnia magna (Water flea)	EC50: 34,2 mg/l/21d	OECD 211	read across
Aquatic toxicity Reproductive toxicity	Daphnia magna (Water flea)	NOAEC: 23,2 mg/l (21d)	OECD 211	read across

12.2. Persistence and degradability

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Biodegradation

83 % (28 d), aerobic, Readily biodegradable, OECD 301 D.

Abiotic Degradation		
n-Butyl acetate (123-86-4)		
Type	Result	Method
Hydrolysis	t _{1/2} (pH 7): 2,14 yr @ 25°C	
Photolysis	No data available	

12.3. Bioaccumulative potential

n-Butyl acetate (123-86-4)		
Type	Result	Method
BCF	15	calculated
log Pow	2,3	measured, OECD 117

12.4. Mobility in soil

n-Butyl acetate (123-86-4)		
Type	Result	Method
Surface tension	61,3 mN/m (1 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	log K _{oc} : 1,27 @ 25 °C	calculated
Distribution to environmental compartments	no data available	

12.5. Results of PBT and vPvB assessment

n-Butyl acetate, CAS: 123-86-4

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

12.6. Other adverse effects

n-Butyl acetate, CAS: 123-86-4

No data available

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Hazardous waste according to European Waste Catalogue (EWC)

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

ADR/RID

14.1. UN number	UN 1123
14.2. UN proper shipping name	Butyl acetates
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	
ADR Tunnel restriction code	(D/E)
Classification Code	F1
Hazard Number	30

ADN

ADN Container

14.1. UN number	UN 1123
14.2. UN proper shipping name	Butyl acetates
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	
Classification Code	F1
Hazard Number	30

ADN

ADN Tanker

14.1. UN number	UN 1123
14.2. UN proper shipping name	Butyl acetates
14.3. Transport hazard class(es)	3
Subsidiary Risk	N3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	
Classification Code	F1

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ICAO-TI / IATA-DGR

14.1. UN number	UN 1123
14.2. UN proper shipping name	Butyl acetates
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	no data available

IMDG

14.1. UN number	UN 1123
14.2. UN proper shipping name	Butyl acetates
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	
EmS	F-E, S-D
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	
Product name	Butyl acetate
Ship type	3
Pollution category	Y

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation 1272/2008, Annex VI

n-Butyl acetate, CAS: 123-86-4

Classification	Flam. Liq. 3; H226 STOT SE 3; H336
Hazard pictograms	GHS02 Flame GHS07 Exclamation mark
Signal word	Warning
Hazard statements	H226, H336 EUH066

International Inventories

n-Butyl acetate, CAS: 123-86-4

AICS (AU)
DSL (CA)
IECSC (CN)
EC-No. 2046581 (EU)
ENCS (2)-731 (JP)

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ISHL (2)-731 (JP)
ISHL 2-(6)-226 (JP)
KECI KE-04179 (KR)
INSQ (MX)
PICCS (PH)
TSCA (US)
NZIoC (NZ)
TCSI (TW)

National regulatory information Egypt

Banned Chemicals (Unified List of Hazardous Substances, List A)
not listed

Substances Requiring Permits (Unified List of Hazardous Substances, List B)
not listed

Non-Restricted Substances (Unified List of Hazardous Substances, List C)

Component	Listed
n-Butyl acetate CAS: 123-86-4	Yes

National regulatory information Israel

Harmful Chemicals (Hazardous Substances Law, 5753-1993, Annex 1)
not listed

Toxic Chemicals (Hazardous Substances Law, 5753-1993, Annex 2)
not listed

Hazardous materials requiring annual testing (Labor Inspection Regs., Appendix 1)

Component	Listed
n-Butyl acetate CAS: 123-86-4	Yes

Hazardous Substances Regulations (Classification & Exemptions)
not listed

National regulatory information South Africa

Group 1 Hazardous Substances (G.N.R 452)
not listed

National regulatory information United Arab Emirates

Prohibited and restricted imports (Ministry of Environment and Water)
not listed

For details and further information please refer to the original regulation.

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SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H226: Flammable liquid and vapour.

H336: May cause drowsiness or dizziness.

EUH 066: Repeated exposure may cause skin dryness or cracking.

Abbreviations

A table of terms and abbreviations can be found under the following link:

http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf

Training advice

For effective first-aid, special training / education is needed.

Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

Further information for the safety data sheet

Changes against the previous version are marked by ***. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage (www.chemicals.oq.com).

Disclaimer

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

End of Safety Data Sheet